


1A. Cost Center: FT 1305		FIT ZONE II CONTRACT Contract Number 68-01-7347 TECHNICAL DIRECTIVE DOCUMENT (TDD)			2. TDD Number: F 058706024	
1B. Account Number: FILO593GA					2A. Amendment: <input checked="" type="checkbox"/> Administrative <input type="checkbox"/> Technical	
3A. Priority: <input type="checkbox"/> High <input type="checkbox"/> Medium <input checked="" type="checkbox"/> Low		3B. Key EPA Contact: Name: ALAN ALTUR Phone: 312/886-0390				
4A. Estimate of Technical Hours: 50		4B. Subcontract: —	4C. Estimate of Subcontract Cost: —	5A. SSID Number: —	5B. CERID Number: 1LD025005257	
5C. EPA Site Name: KAPCHERE PIPE AND SUPPLY CO. (SIA)				5D. City/County/State: CENTRALIA/MARION/IL		
6. Desired Report Format: <input type="checkbox"/> Formal Report <input checked="" type="checkbox"/> Standard Report <input type="checkbox"/> Other (Specify): <input type="checkbox"/> Letter Report <input type="checkbox"/> Formal Briefing				7A. Activity Start Date: 06/05/87	7B. Estimated Completion Date: 12/30/89	
8A. Type of Activity: <input type="checkbox"/> PA <input type="checkbox"/> RCRA-PA <input type="checkbox"/> HRS Support <input type="checkbox"/> Enforcement Support <input type="checkbox"/> Training <input checked="" type="checkbox"/> SI <input type="checkbox"/> RCRA-SI <input type="checkbox"/> QA Support <input type="checkbox"/> Program Management <input type="checkbox"/> General Technical Assistance <input type="checkbox"/> ESI <input type="checkbox"/> Special Studies <input type="checkbox"/> Equipment Maintenance					8B. FIT/SCAP Goal: Will Deliverable Meet a Unit of the Goal? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
9. General Task Description: WORK REQUESTED FOR THIS COAL MINE SITE WAS CANCELLED DUE TO CONFLICTS WITH SMCRA. AN EXTENSION TO THE ESTIMATED COMPLETION DATE IS NECESSARY DUE TO AOC RECONCILIATION ALTHOUGH ALL SITES HAVE BEEN TWO'ED.						
10. Specific Elements: ALL COAL MINE SITES WERE BUDGETED FOR 50 HOURS. SOME WORK WAS PERFORMED AT SOME SITES PRIOR TO CANCELLATION. NO AMENDMENT TO HOURS IS NECESSARY FOR THIS SITE.					11. Interim Deadlines: _____ _____ _____ _____ _____	
					<input type="checkbox"/> Additional Scope Attached	
12. Comments: ESTIMATED COMPLETION DATE EXTENDED FROM 06/04/88 TO 12/30/89.						
EPA Region 5 Records Ctr.  343696						
13. Authorizing: <i>Paul C. Nabors, Acting</i> (Signature)				<input checked="" type="checkbox"/> RPO <input type="checkbox"/> DPO <input type="checkbox"/> PO		14. Date: 12/29/89
15. Received by: <i>[Signature]</i> (Contractor FITOM Signature)				<input checked="" type="checkbox"/> Accepted <input type="checkbox"/> Accepted with Exceptions (Attached) <input type="checkbox"/> Rejected		16. Date: 1/9/90



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
I 40 025 005 257

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)
Karchmer Pipe & Supply Co

02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
SECT 24/25 T-1-N, R-8-E

03 CITY
Elm River Township

04 STATE 05 ZIP CODE 06 COUNTY 07 COUNTY CODE 08 CONG DIST
IL 62801 Wayne 191 19

09 COORDINATES LATITUDE LONGITUDE
38 29 44. 088 16 10. Fairfield 7.5 Quad (240)

10 DIRECTIONS TO SITE (Starting from nearest public road)

See Attached Map

III. RESPONSIBLE PARTIES

01 OWNER (If known)
DMA Hendricks

02 STREET (Business, mailing, residential)

03 CITY 04 STATE 05 ZIP CODE 06 TELEPHONE NUMBER
UNK

07 OPERATOR (If known and different from owner)
Karchmer Pipe & Supply Co

08 STREET (Business, mailing, residential)
300 N Brookside - Box 581

09 CITY 10 STATE 11 ZIP CODE 12 TELEPHONE NUMBER
Centralia IL 62801 UNK

13 TYPE OF OWNERSHIP (Check one)

☒ A. PRIVATE ☐ B. FEDERAL: (Agency name)
☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER: (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

☐ A. RCRA 3001 DATE RECEIVED: MONTH DAY YEAR ☐ B. UNCONTROLLED WASTE SITE (RCRA 103 d) DATE RECEIVED: MONTH DAY YEAR ☒ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON-SITE INSPECTION BY (Check all that apply)
☐ YES DATE MONTH DAY YEAR
☒ NO
☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER: (Specify)
CONTRACTOR NAME(S):

02 SITE STATUS (Check one)

☐ A. ACTIVE ☐ B. INACTIVE ☒ C. UNKNOWN

03 YEARS OF OPERATION

BEGINNING YEAR ENDING YEAR
UNK UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

Oily Waste (Toxic)
Heavy Metals (Soluble/Toxic/Persistent)

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

Ground Water (Population/Environment)

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)

☐ A. HIGH (Inspection required promptly) ☒ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT 02 OF (Agency/Organization) 03 TELEPHONE NUMBER
()

04 PERSON RESPONSIBLE FOR ASSESSMENT 05 AGENCY 06 ORGANIZATION 07 TELEPHONE NUMBER 08 DATE
Richard Lange IEPA HSCS (217) 782-6760 09/03/85
MONTH DAY YEAR



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL 035005 257

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: 300

02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

Highly soluble brine waste placed for disposal in unlined lagoon. This practice has impacted private wells at similar facilities.

01 ☐ B. SURFACE WATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

01 ☐ C. CONTAMINATION OF AIR

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

01 ☐ E. DIRECT CONTACT

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

01 ☒ F. CONTAMINATION OF SOIL

03 AREA POTENTIALLY AFFECTED: 1/2^{acres}

02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

Loss of production (Ag land) & damage to soil structure has been noted at similar sites.

(See J following) (See 05 other following)

01 ☒ G. DRINKING WATER CONTAMINATION

03 POPULATION POTENTIALLY AFFECTED: 300

02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

See A above

01 ☐ H. WORKER EXPOSURE/INJURY

03 WORKERS POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE/INJURY

03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

EXECUTIVE SUMMARY

This site has been placed in the ERRIS data base as a result of its selection for Phase II evaluation during the federally funded Surface Impoundment Assessment (SIA) study of 1980. During ERRIS placement the operator name and business address were utilized from the SIA which results in deviations from ERRIS for actual site location, Part I section II items 02 through 08 of form 2070-12. This use of operator name and address has also led to one (1) ERRIS listing representing, in actuality, from one (1) to one hundred eight (108) actual brine pits at an equal number of separate locations.

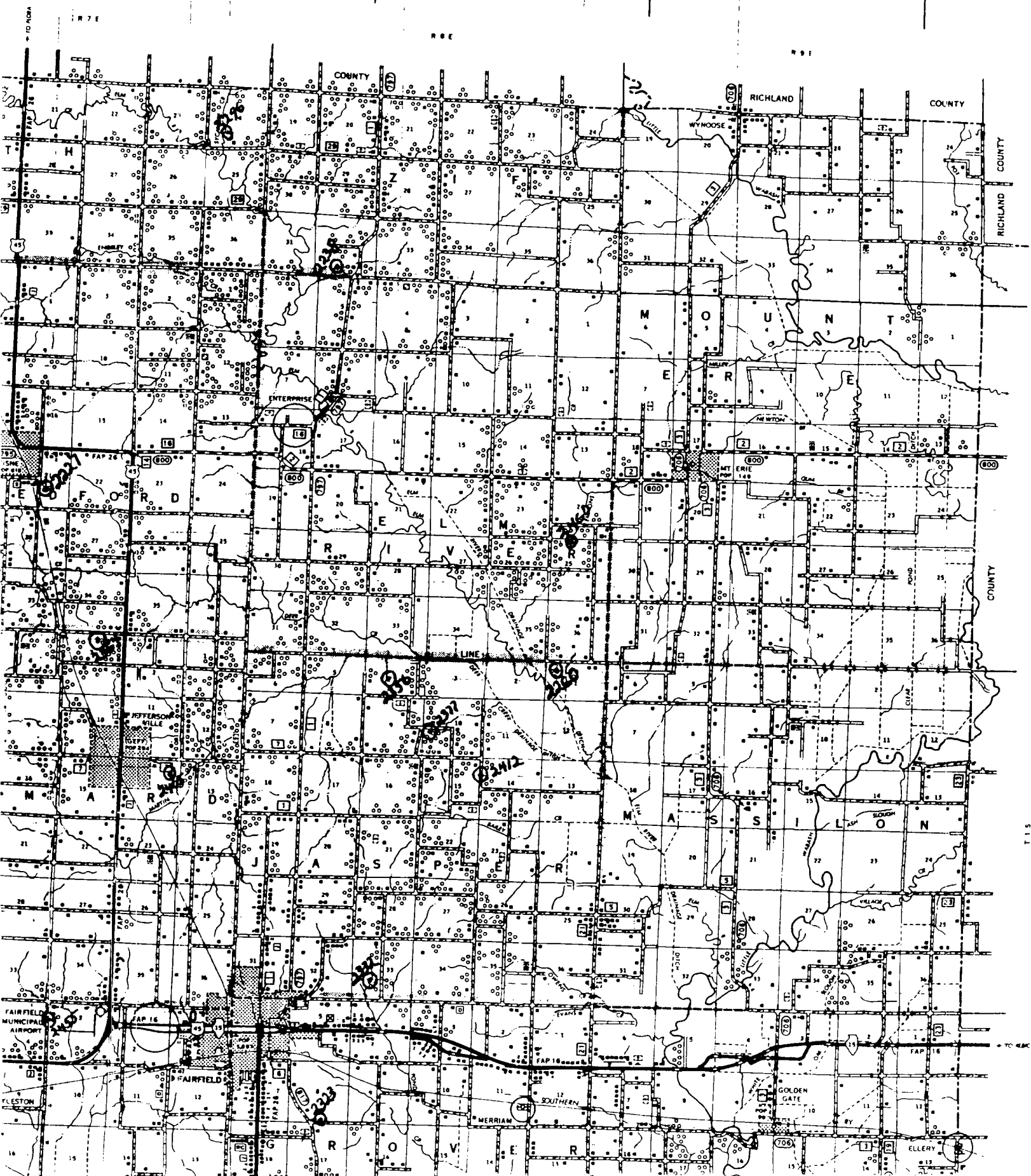
Some considerable effort has been expended to select the site with highest, Phase II SIA, pollution potential where multiple sites are represented by a single ERRIS listing. One must keep in mind that the Phase II SIA represents no more than 7 percent of the brine pits identified in Illinois. Phase I identified more than 3200 pits where Phase II evaluated a random selection of less than 220. One must also maintain a realization that phase II pollution potential was determined by bench top study with little or no actual site visitation or monitoring.

Minimal to no file information exists on this site beyond that contained in Phases I and II of the SIA. There is no direct evidence of hazardous waste disposal at this site beyond the potentially hazardous constituents of Illinois Basin brines, but with only annual inspections by Illinois Mines and Minerals staff relevant to oil production practices and recent backfilling of most brine pits in Illinois, disposal of off site material of unknown nature is possible. A literature review and laboratory analysis of samples from two other sites indicate concern for contamination of groundwater/surface water by Sodium, Sulfate, Chloride etc. (Non-Hazardous Constituents), concern for heavy metals (i.e., Chrome, Vanadium, Barium) and long chain hydrocarbons.

A question arises as to the addressability of the heavy metals by CERCLA when one considers 40 CFR section 300.6 "Definitions - Federally Permitted Release (i)" and Section 101(10) of CERCLA. The statement "and which are reinjected" seems to allow CERCLA action, but interpretation and clarification by USEPA legal staff seems required. The long chain hydrocarbons would appear to be included in the exclusion given to crude oil and fractions thereof under 40 CFR section 300.6 "Definitions-Hazardous Substance" and 101(14) of CERCLA.

A medium priority has been assigned due to the potential impact of this site on groundwater in a rural area where private wells are generally the sole source for potable water. Similar sites have impacted private wells to a point requiring users to seek alternative sources for drinking water. A site inspection should be scheduled to verify/update owner-operator information and gain more thorough site specific information.

RML:bf/22





POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
IL 119

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name please)

Karchmer Pipe & Supply Co.

02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER

W 1/2 of Sec 11 T4N R6W

03 CITY

Marine Township

04 STATE

IL

05 ZIP CODE

62801

06 COUNTY

Madison

07 COUNTY CODE

119

08 CONG DIST

21

09 COORDINATES

LATITUDE

38 48 20

LONGITUDE

089 34 15

Grantfork 7.5' Quad (219)

10 DIRECTIONS TO SITE (Starting from nearest public road)

See Attached Map

III. RESPONSIBLE PARTIES

01 OWNER (if owner)

Decker Farms Inc.

02 STREET (Business, mailing, residential)

R.R.

03 CITY

Marine

04 STATE

IL

05 ZIP CODE

62061

06 TELEPHONE NUMBER

UNK

07 OPERATOR (if operator and different from owner)

Karchmeyer Pipe & Supply Co.

08 STREET (Business, mailing, residential)

Box 581 300 N. Brookside

09 CITY

Centralia

10 STATE

IL

11 ZIP CODE

62801

12 TELEPHONE NUMBER

UNK

13 TYPE OF OWNERSHIP (Check one)

☒ A. PRIVATE

☐ B. FEDERAL

☐ C. STATE

☐ D. COUNTY

☐ E. MUNICIPAL

☐ F. OTHER

(Specify)

☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

☐ A. RCRA 3001 DATE RECEIVED

MONTH DAY YEAR

☐ B. UNCONTROLLED WASTE SITE (RCRA 103 d) DATE RECEIVED

MONTH DAY YEAR

☒ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION

☐ YES

DATE

MONTH DAY YEAR

☒ NO

BY (Check all that apply)

☐ A. EPA

☐ B. EPA CONTRACTOR

☐ C. STATE

☐ D. OTHER CONTRACTOR

☐ E. LOCAL HEALTH OFFICIAL

☐ F. OTHER:

(Specify)

CONTRACTOR NAME(S):

02 SITE STATUS (Check one)

☐ A. ACTIVE

☐ B. INACTIVE

☒ C. UNKNOWN

03 YEARS OF OPERATION

BEGINNING YEAR

ENDING YEAR

UNK

☒ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

Oil Waste (Toxic)

Heavy Metals (Soluble/Toxic/Persistent)

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

Ground Water (Population/Environment)

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2: Waste Information and Part 3: Description of Hazardous Conditions and Incidents)

☐ A. HIGH

(Inspection required promptly)

☒ B. MEDIUM

(Inspection required)

☐ C. LOW

(Inspect on time available basis)

☐ D. NONE

(No further action needed; complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT

02 OF (Agency/Organization)

03 TELEPHONE NUMBER

04 PERSON RESPONSIBLE FOR ASSESSMENT

05 AGENCY

IEPA

06 ORGANIZATION

HSCS

07 TELEPHONE NUMBER

(217) 782-6760

08 DATE

09.12.85
MONTH DAY YEAR



I HIGHLY VOLATILE
J EXPLOSIVE
K REACTIVE
L INCOMPATIBLE
M NOT APPLICABLE



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

IL

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED 400
02 ☐ OBSERVED (DATE _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Highly soluble brine waste placed for disposal in unlined lagoon. This practice has impacted private wells at similar facilities.

01 ☐ B SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED _____
02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ C CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED _____
02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ D FIRE EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED _____
02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ E DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED _____
02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☒ F CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED Unk
02 ☐ OBSERVED (DATE _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Loss of production (Ag land) + damage to soil structure has been noted at similar sites.

01 ☒ G DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED 400
02 ☐ OBSERVED (DATE _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
(See J following) (See 05 Other following)

See A above

01 ☐ H WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED _____
02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ I POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED _____
02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

IL

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☒ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☒ POTENTIAL

☐ ALLEGED

The near sterilization of soils (>5 acres), Attributed to increased soil salinity, has been noted at other similar sites.

(See F Above) (See 05 other following)

01 ☐ K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (include names of species)

02 ☐ OBSERVED (DATE _____)

☐ POTENTIAL

☐ ALLEGED

01 ☐ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☐ POTENTIAL

☐ ALLEGED

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES
(Leak, runoff, draining, seepage, leaking, chemical)

02 ☐ OBSERVED (DATE _____)

☐ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED _____

04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☐ POTENTIAL

☐ ALLEGED

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☐ POTENTIAL

☐ ALLEGED

01 ☒ P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☐ POTENTIAL

☐ ALLEGED

Site was infrequently inspected by regulatory agencies, Facility has now been backfilled making illegal dumping hard to detect.

☒ Q. DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL OR ALLEGED HAZARDS

Boonding of soils by brines is deemed leading cause of soil erosion in several IL counties.

III. TOTAL POPULATION POTENTIALLY AFFECTED: 400

IV. COMMENTS

Archmer Pipe & Supply Co
320 W. Brookside
Centralia, IL 62801

Information as
appears on ERRIIS
(2-4)

V. SOURCES OF INFORMATION (Can specify references to EPA, State, local, or other reports)

S.I.A. study

EXECUTIVE SUMMARY

This site has been placed in the ERRIS data base as a result of its selection for Phase II evaluation during the federally funded Surface Impoundment Assessment (SIA) study of 1980. During ERRIS placement the operator name and business address were utilized from the SIA which results in deviations from ERRIS for actual site location, Part I section II items 02 through 08 of form 2070-12. This use of operator name and address has also led to one (1) ERRIS listing representing, in actuality, from one (1) to one hundred eight (108) actual brine pits at an equal number of separate locations.

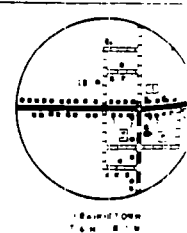
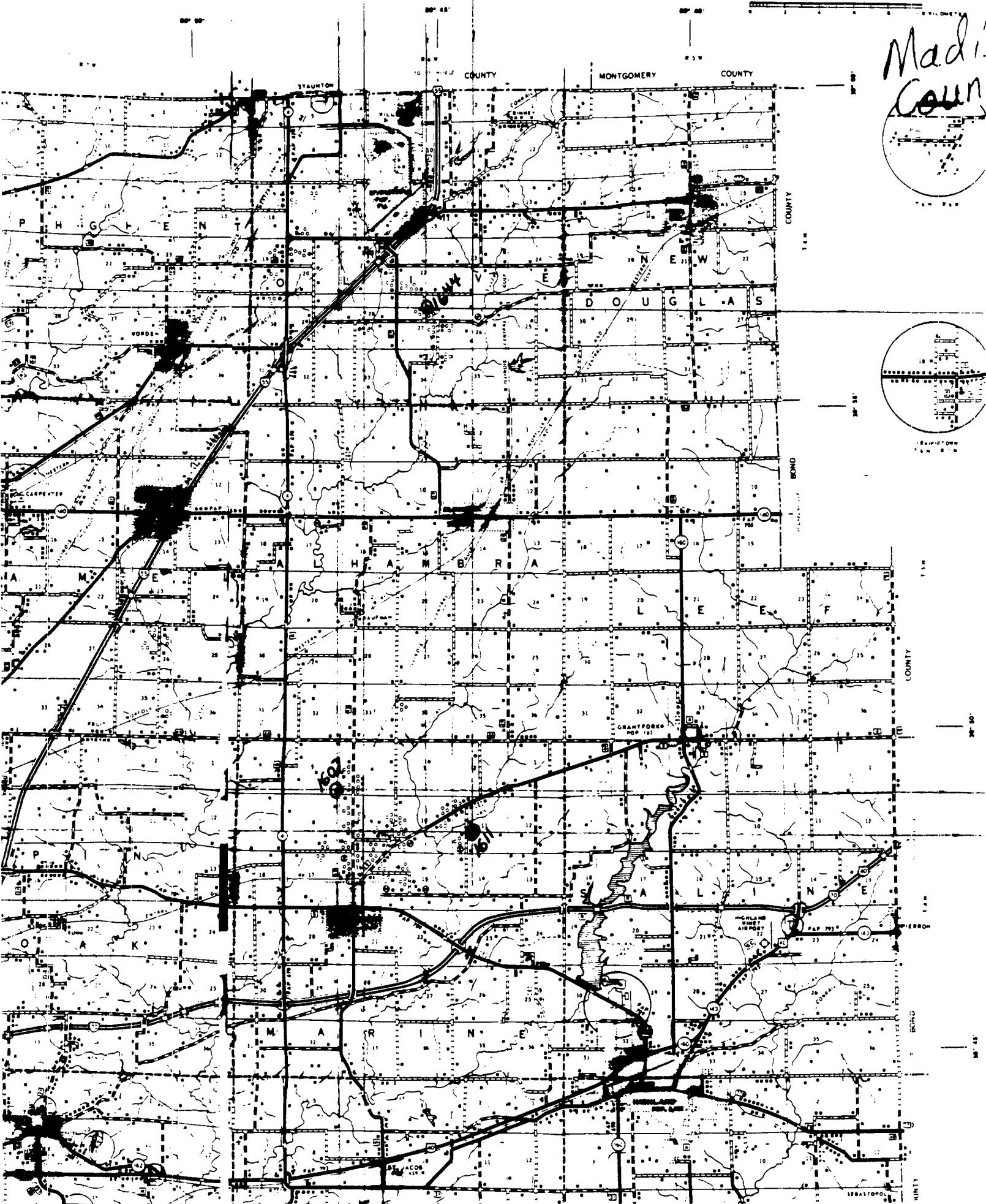
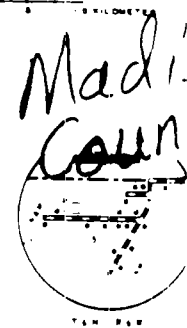
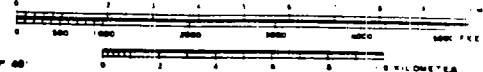
Some considerable effort has been expended to select the site with highest, Phase II SIA, pollution potential where multiple sites are represented by a single ERRIS listing. One must keep in mind that the Phase II SIA represents no more than 7 percent of the brine pits identified in Illinois. Phase I identified more than 3200 pits where Phase II evaluated a random selection of less than 220. One must also maintain a realization that phase II pollution potential was determined by bench top study with little or no actual site visitation or monitoring.

Minimal to no file information exists on this site beyond that contained in Phases I and II of the SIA. There is no direct evidence of hazardous waste disposal at this site beyond the potentially hazardous constituents of Illinois Basin brines, but with only annual inspections by Illinois Mines and Minerals staff relevant to oil production practices and recent backfilling of most brine pits in Illinois, disposal of off site material of unknown nature is possible. A literature review and laboratory analysis of samples from two other sites indicate concern for contamination of groundwater/surface water by Sodium, Sulfate, Chloride etc. (Non-Hazardous Constituents), concern for heavy metals (i.e., Chrome, Vanadium, Barium) and long chain hydrocarbons.

A question arises as to the addressability of the heavy metals by CERCLA when one considers 40 CFR section 300.6 "Definitions - Federally Permitted Release (i)" and Section 101(10) of CERCLA. The statement "and which are reinjected" seems to allow CERCLA action, but interpretation and clarification by USEPA legal staff seems required. The long chain hydrocarbons would appear to be included in the exclusion given to crude oil and fractions thereof under 40 CFR section 300.6 "Definitions-Hazardous Substance" and 101(14) of CERCLA.

A medium priority has been assigned due to the potential impact of this site on groundwater in a rural area where private wells are generally the sole source for potable water. Similar sites have impacted private wells to a point requiring users to seek alternative sources for drinking water. A site inspection should be scheduled to verify/update owner-operator information and gain more thorough site specific information.

RML:bf/22



INDEX FORM FOR FIT FILES

This information does not have to be written out for each item to be filed. Instead, fill in Lines 1-3 and photocopy onto yellow paper to make the form obvious in the file. Then under line 4, check the respective box on the yellow sheets. Place the form directly in front of the material it represents.

1. TECHNICAL DIRECTIVE DOCUMENT (TDD) NUMBER: FOS-8706-c24
2. PROJECT ACCOUNT (PAN) NUMBER: FEL0593GA
3. SITE NAME AND LOCATION: Karchmer Pipe & Supply CO. Elm River Twp, IL
4. FILE DESCRIPTION (Check ONE Only):

RESERVED)

- TECHNICAL DIRECTIVE DOCUMENT(TDD)
- ACKNOWLEDGEMENT OF COMPLETION(AOC)
- PERFORMANCE EVALUATION REPORT
- SITE SAFETY PLAN AND RELATED DOCUMENTS
- SITE INSPECTION REPORT (EPA 2070-13)
- HRS RANKING SYSTEM REPORT (HRS)

REPORTS

- X PRELIMINARY ASSESSMENT (EPA 2070-12)
PRELIMINARY ASSESSMENT DOCUMENTATION PACKAGE
FIT TECHNICAL MEMORANDA/REPORTS

PROJECT INFORMATION (Collected from non-FIT sources)

- _____ FEDERAL FILE INFORMATION
- _____ STATE FILE INFORMATION
- _____ COUNTY/TOWNSHIP FILE INFORMATION
- _____ CITY FILE INFORMATION
- _____ SITE OWNER/OPERATOR FILE INFORMATION
- _____ GEOLOGICAL INFORMATION (e.g. well logs)
- _____ MISCELLANEOUS FILE INFORMATION

FIELD WORK (FIT GENERATED WORK)

- ___ WORK PLAN/SAMPLE PLAN
- ___ QUALITY ASSURANCE PLAN (QAPP)
- ___ FIELD NOTEBOOKS
- ___ PHOTOGRAPHS/SLIDES/NEGATIVES
- ___ SITE SKETCHES/MAPS
- ___ SAMPLE MANAGEMENT(Chain of Custody, etc.)
- ___ ANALYTICAL DATA Date _____
- ___ HYDROGEOLOGIC DATA (i.e., boring logs, pump tests, slug tests, etc.)

GEOPHYSICAL DATA

- ___ AIR MONITORING DATA
- ___ TELEPHONE CONVERSATION LOGS
- ___ MEETING NOTES/CONTACT REPORTS
- ___ CORRESPONDENCE

SUBCONTRACT MANAGEMENT

DRILLING SUBCONTRACTS

- BID PACKAGE
- BID REQUEST LETTERS
- BIDDER'S SUBMITTALS
- EVALUATION OF SUBMITTALS/MEMORANDUM OF JUSTIFICATION
- REQUEST FOR SUBCONTRACT APPROVAL
- CONTRACT
- SUBCONTRACTOR'S DELIVERABLES
- INVOICES/INVOICE VERIFICATION
- CORRESPONDENCE

OTHER SUBCONTRACTS (

- BID PACKAGE
- BID REQUEST LETTERS
- BIDDER'S SUBMITTALS
- EVALUATION OF SUBMITTALS/MEMORANDUM OF JUSTIFICATION
- REQUEST FOR SUBCONTRACT APPROVAL
- CONTRACT
- SUBCONTRACTOR'S DELIVERABLES
- INVOICES/INVOICE VERIFICATION
- CORRESPONDENCE

OTHER

[illegible]



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL 62-005857

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)
Karchmeyer Pipe & Supply Co
02 STREET, ROUTE NO. OR SPECIFIC LOCATION IDENTIFIER
T-4-N R-6-W
03 CITY
Marine Township
04 STATE 05 ZIP CODE 06 COUNTY 07 COUNTY CODE 08 CONG DIST
IL 62801 177 (41-501) 119 21
09 COORDINATES LATITUDE LONGITUDE
38° 49' 00" 89° 46' 58"
10 DIRECTIONS TO SITE (Starting from nearest public road)
Marine 7.5' Quad (220)

See Attached Map

III. RESPONSIBLE PARTIES

01 OWNER (if known)
W.C. Schreiber
02 STREET (Business, mailing, residential)
516 E. Main
03 CITY
Collinsville
04 STATE 05 ZIP CODE 06 TELEPHONE NUMBER
IL 62234 ' ' UNK
07 OPERATOR (if known and different from owner)
Karchmeyer Pipe & Supply Co
08 STREET (Business, mailing, residential)
300 N. Brockside - Box 581
09 CITY
Centralia
10 STATE 11 ZIP CODE 12 TELEPHONE NUMBER
IL 62801 ' ' UNK
13 TYPE OF OWNERSHIP (Check one)
☒ A. PRIVATE ☐ B. FEDERAL ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

☐ A RCRA 3001 DATE RECEIVED MONTH DAY YEAR ☐ B UNCONTROLLED WASTE SITE (RCRA 163(a)) DATE RECEIVED MONTH DAY YEAR ☒ C NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
☐ YES DATE MONTH DAY YEAR ☒ NO
BY (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER
CONTRACTOR NAME(S):

02 SITE STATUS (Check one)
☐ A ACTIVE ☐ B INACTIVE ☒ C UNKNOWN
03 YEARS OF OPERATION
BEGINNING YEAR ENDING YEAR
UNK UNK

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

Oily Waste (Toxic)
Heavy Metals (Soluble/Toxic/Persistent)

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

Ground Water (Population/Environment)

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one if high or medium is checked, complete Part 2. Where information and Part 3. Description of Hazardous Conditions and Incidents)
☐ A HIGH (Inspection required promptly) ☒ B MEDIUM (Inspection required) ☐ C LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT 02 OF (Agency, Organization) 03 TELEPHONE NUMBER
04 PERSON RESPONSIBLE FOR ASSESSMENT 05 AGENCY 06 ORGANIZATION 07 TELEPHONE NUMBER 08 DATE
Rich Lange IEPA HSCS (217) 782-6760 09.12.85
MONTH DAY YEAR



HIGHLY VOLATILE
EXPLOSIVE.
REACTIVE
INCOMPATIBLE
NOT APPLICABLE



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	625105357

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☒ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION The near sterilization of soils (>5 acres), Attributed to increased soil salinity, has been noted at other similar sites.
(See F Above) (See 05 other following)

02 ☐ OBSERVED (DATE _____) ☒ POTENTIAL ☐ ALLEGED

01 ☐ K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (Include names of species)

02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED

01 ☐ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES
(Soils, runoff, standing liquids, floating drums)
03 POPULATION POTENTIALLY AFFECTED _____

02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED

01 ☒ P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED

Site was infrequently inspected by regulatory agencies, Facility has now been backfilled making illegal dumping hard to detect.

☒ Q. DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL OR ALLEGED HAZARDS

Remediation of soils by brines is deemed leading cause of soil erosion in several Ill. counties.

III. TOTAL POPULATION POTENTIALLY AFFECTED: 1,337

IV. COMMENTS

Karchmer Pipe & Supply Co
300 N. Brookside
Centralia, IL 62801

Information as appears
on EIRIS (2-4)

V. SOURCES OF INFORMATION (List specific references to data used, including agency reports)

S.I.A. study



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

IL 025105257

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☒ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____) ☒ POTENTIAL ☐ ALLEGED

The near sterilization of soils (>5 acres), Attributed to increased soil salinity, has been noted at other similar sites.

(See F Above) (See 05 other following)

01 ☐ K. DAMAGE TO FAUNA

04 NARRATIVE DESCRIPTION (Include names of species)

02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED

01 ☐ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES
(Spills, runoff, leaking drums, leaking drums)

03 POPULATION POTENTIALLY AFFECTED _____

02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED

04 NARRATIVE DESCRIPTION

01 ☐ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED

01 ☒ P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED

Site was infrequently inspected by regulatory agencies, Facility has now been backfilled making illegal dumping hard to detect.

06 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL OR ALLEGED HAZARDS

Leaching of soils by brines is deemed leading cause of soil erosion in several Ill. counties.

III. TOTAL POPULATION POTENTIALLY AFFECTED: 1,337

IV. COMMENTS

Karchmer Pipe & Supply Co
300 N. Brookside
Centralia, IL 62801

Information as appears
on EPCIS (L-4)

V. SOURCES OF INFORMATION (Can include references to other files, letters, studies, reports)

S.I.A. study

EXECUTIVE SUMMARY

This site has been placed in the ERRIS data base as a result of its selection for Phase II evaluation during the federally funded Surface Impoundment Assessment (SIA) study of 1980. During ERRIS placement the operator name and business address were utilized from the SIA which results in deviations from ERRIS for actual site location, Part I section II items 02 through 08 of form 2070-12. This use of operator name and address has also led to one (1) ERRIS listing representing, in actuality, from one (1) to one hundred eight (108) actual brine pits at an equal number of separate locations.

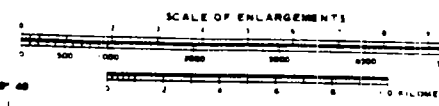
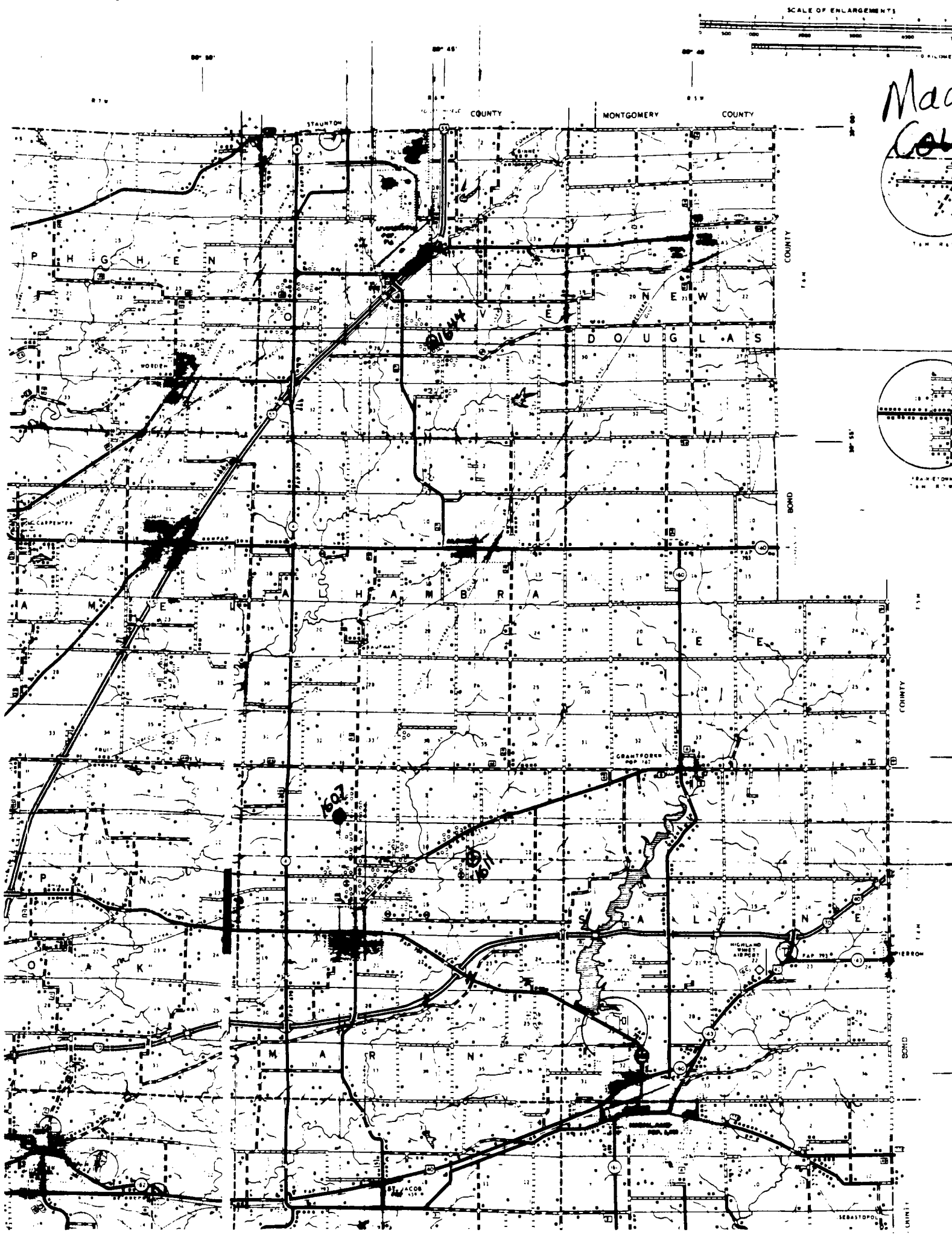
Some considerable effort has been expended to select the site with highest, Phase II SIA, pollution potential where multiple sites are represented by a single ERRIS listing. One must keep in mind that the Phase II SIA represents no more than 7 percent of the brine pits identified in Illinois. Phase I identified more than 3200 pits where Phase II evaluated a random selection of less than 220. One must also maintain a realization that phase II pollution potential was determined by bench top study with little or no actual site visitation or monitoring.

Minimal to no file information exists on this site beyond that contained in Phases I and II of the SIA. There is no direct evidence of hazardous waste disposal at this site beyond the potentially hazardous constituents of Illinois Basin brines, but with only annual inspections by Illinois Mines and Minerals staff relevant to oil production practices and recent backfilling of most brine pits in Illinois, disposal of off site material of unknown nature is possible. A literature review and laboratory analysis of samples from two other sites indicate concern for contamination of groundwater/surface water by Sodium, Sulfate, Chloride etc. (Non-Hazardous Constituents), concern for heavy metals (i.e., Chrome, Vanadium, Barium) and long chain hydrocarbons.

A question arises as to the addressability of the heavy metals by CERCLA when one considers 40 CFR section 300.6 "Definitions - Federally Permitted Release (i)" and Section 101(10) of CERCLA. The statement "and which are reinjected" seems to allow CERCLA action, but interpretation and clarification by USEPA legal staff seems required. The long chain hydrocarbons would appear to be included in the exclusion given to crude oil and fractions thereof under 40 CFR section 300.6 "Definitions-Hazardous Substance" and 101(14) of CERCLA.

A medium priority has been assigned due to the potential impact of this site on groundwater in a rural area where private wells are generally the sole source for potable water. Similar sites have impacted private wells to a point requiring users to seek alternative sources for drinking water. A site inspection should be scheduled to verify/update owner-operator information and gain more thorough site specific information.

FML:bf/22



Mad
Cou

